

-25-

**METHOD AND SYSTEM FOR CACHE MANAGEMENT**  
**ALGORITHM SELECTION**

**Abstract of the Disclosure**

5

In a data storage device, a system of method of optimizing cache management. A method includes selecting a set of cache management algorithms associated with a predetermined pattern in a sequence of commands. Statistics based on a sequence of commands are gathered and a pattern is detected from the statistics. The pattern is associated with predetermined known patterns to identify a set of cache management algorithms that are optimized for the known pattern. A system includes usage statistics that are correlated among a set of known usage patterns. A switch chooses the set of cache management algorithms associated with the known pattern that most closely matches the usage statistics.

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

37

38

39

40

41

42

43

44

45

46

47

48

49

50

51

52

53

54

55

56

57

58

59

60

61

62

63

64

65

66

67

68

69

70

71

72

73

74

75

76

77

78

79

80

81

82

83

84

85

86

87

88

89

90

91

92

93

94

95

96

97

98

99

100